

!" #&/
4;O <548G=>3> 70AB>AC20==O ?@5?0@0BC

(CLAVAM)

C;:04:

4VNGV @5G>28=8: 1 D;0:>= ;:02C;0=0BC :0;VN 5:2V20;5=B=> ;:02C;0=>2V9 :8A;>BV 200 <3.

V:0@AL:0 D>@<0. >@>H>: 4;O ?@83>BC20==O @>7G8=C 4;O V= T: FV9.

\$0@<0:>B5@0?52B8G=0 3@C?0.

=B810:B5@V0;L=V 70A>18 4;O A8AB5<=>3> 70AB>AC20==O. <>:A8F8;V= B0 V=3V1VB>@ D5@
<5=BC.

>4 "I J01C R02.

;V=VG=V E0@0:B5@8AB8:8.

>:070==O.

V:C20==O 10:B5@V0;L=8E V=D5:FV9, A?@8G8=5=8E GCB;828<8 4> ?@5?0@0BC >@30=V7<0<8, B0:8E
O::

BO6:V V=D5:FVW 3>@;0, =>A0 B0 2CE0 (B0:V O: <0AB>W48B, ?5@8B>=78;O@=V V=D5:FVW,
5?V3;>B8B V A8=CA8B V7 AC?CB=V<8 BO6:8<8 A8AB5<=8<8 A8<0<8);

703>AB@5==O E@>=VG=>3> 1@>=EVBC (?VA;O ?V4B25@465==O 4V03=>7C);
=53>A?VB0;L=0 ?=52<>=VO;

F8AB8B;

?VT;>=5D@8B;

V=D5:FVW H:V@8 B0 <O:8E B:0=8=, C B. G. 10:B5@V0;L=V F5;N;VB8, C:CA8 B20@8=, BO6:V
45=B>0;L25>;O@=V 01AF5A8 7 ?>H8@5=8< F5;N;VB><;

V=D5:FVW :VAB>: V AC3;>1V2, C B. G. >AB5>

2=CB@VH=L>G5@52=V V=D5:FVW;

V=D5:FVW AB0B528E >@30=V2 C 6V=>:.

@>DV;0:B8:0 10:B5@V0;L=8E V=D5:FV9 ?@8 25;8:8E >?5@0B82=8E 2B@CG0==OE C B0:8E 7>=0E:
B@02=89 B@0:B;

>@30=8 <0;>3> B070;

3>;>20 B0 H8O;

6>2G=V H;OE8.

@>B8?>:070==O.

V428I5=0 GCB;82VABL 4> 4VNG8E @5G>28=, ?5=VF8;V=C B0 V=H8E :>

"O6:0 0;5@3VG=0 @50:FVO =5309=>3> B8?C (=0?@8::04 0=0DV;0:AVO) =0 V=H89 15B0-;0:B0<=89
0=B81V>B8: (=0?@8::04 F5D0;>A?>@8=, :0@10?5=5< 01> <=>=>10:B0<) 2 0=0<=57V.

>2BO=8FO/?>@CH5==O DC=:FVW ?5GV=:8 2 0=0<=57V, I> 1C;> A?@8G8=5=> 0<>:A8F8;V=>2>N
:8A;>B>N (482. @>74V; <<>1VG=V @50:FVW»).

!?!>AV1 70AB>AC20==O B0 4>78.

>78 =02545=> O: 2

@8 281>@V 4>78 ;020W V=D5:FVW =5>1EV4=> 2@0E>2C20B8: >GV:C20=V 71C4=8:8 B0 WE

?5@5410GC20=C GCB;82VABL 4> 0=B810:B5@V0;L=8E @5G>28= (482. @>74V; <<A>1;82>ABV

70AB>AC20==O»); BO6:VABL V ;>:0;V70FVN V=D5:FVW; 2V.;<0AC BV;0 V AB0= DC=:FVW =8@>:
?0FVT=B0, O: >?8A0=> 40;V.

@07V =5>1EV4=>ABV <>6=0 70AB>A>2C20B8 0;LB5@=0B82=V ;V:0@AL:V D>@<8 ?@5?0@0BC (=0?@8::04 7 1V;LH8<8 4>70<8 0<>:A8F8;V=C B0/01> V=H8< A?V22V4=>H5==O< 0<>:A8F8;V=C B0 ::02C;0=>2>W :8A;>B8).

&V ;V:0@AL:V D>@<8 <>6=0 70AB>A>2C20B8 C 4>1>2V9 4>7V 4> 3000 <3 0<>:A8F8;V=C B0 600 <3 ::02C;0=>2>W :8A;>B8. 0=5>1EV4=>ABV 70AB>AC20==O 28I>W 4>78 0<>:A8F8;V=C A;V4 ?@87=0G0B8 V=HC ;V:0@AL:C D>@:8E 45==8E 4>7 ;:02C;0=>2>W :8A;>B8.

"@820;VABL ;V:C20==O 287=0G0NBL V=482V4C0;L=>. 5O:V V=D5:FVW (=0?@8::04 >AB5B@51CNBL B@820;VH>3> ;V:C20==O. "@820;VABL ;V:C20==O =5 ?>28==0 ?5@528IC20B8 14 4V1, C @07V O:I> =5 ?@>2>48;>AO >FV=:8 @57C;LB0BV2 70AB>AC20==O V ;V=VG=>W :0@B8=8 (482. @>74V; <<A>1;82>ABV 70AB>AC20==O).

>7C20==O 4;O 4>@>A;8E B0 4VB59, <0A0 BV;0 O:8E ≥ 40 :3

!B0=40@B=0 4>70: 1000/200 <3 :>6=V 8 3>48=.

@>DV;0:B8:0 CA::04=5=L ?@8 EV@C@3VG=8E 2B@CG0==OE

@8 >?5@0FVOE B@820;VABN<5=H5 1 3>48=8 @5:><5=4>20=0 4>70 AB0=>28BL 2V4 1000/200 <3 4> 2000/200 <3 ?@8 22545==V 2 =0@:>7 (4>70 2000/200 <3 <>65 1CB8 4>AO3=CB0 ?@8 70AB>AC20==V V=H>W 2=CB@VH=L>25==>W D>@<8 ;020

@8 >?5@0FVOE B@820;VABN ?>=04 1 3>48=C @5:><5=4>20=0 4>70 AB0=>28BL 2V4 1000/200 <3 4> 2000/200 <3 ?@8 22545==V 2 =0@:>7, 4>7C 1000/200 <3 <>6=0 225AB8 3 @078 ?@>BO3<< 24 3>48=.

0 O2=8E ;V=VG=8E >7=0: V=D5:FVW 2 ?VA;O>?5@0FV9=>4V A;V4 ?@87=0G0B8 :C@A ;V:C20==O 7 2=CB@VH=L>25==8< 01> ?5@>@0;L=8< 22545==O< ?@5?0@0BC.

>7C20==O 4;O 4VB59 7 <0A>N BV;0 □ 40 :3

VB8 2V:> 2V4 3

VB8 2V:> 4> 3 <0A>N BV;0 <5=H5 4 :3: 25/5 <3/:3 <0A8 BV;0 :>6=V 12 3>48=.

0FVT=B8 ;VB=L>3> 2V:C

>@5:FVO 4>78 =5 ?>B@V1=0.

>@CH5==O DC=:FVW =8@>:

>@5:FVO 4>7C20==O 107CTBLAO =0 <0:A8<0;L=8E @5:><5=4>20=8E 4>70E 0<>:A8F8;V=C.

;V@5=A :@50B8=V=C > 30 <;/E2 :>@5:B828 4>7C20==O =5 ?>B@V1=V.

>@>A;V B0 4VB8 7 <0A>N BV;0 ≥ 40 :3

;V@5=A :@50B8=V=C 10-30 <;/E2	1000/200 <3, ?>BV< 500/100 <3 2 @078 =0 45=L
;V@5=A :@50B8=V=C □ 10 <;/E2	1000/200 <3, ?>BV< 500/100 <3 :>6=V 24 3>48=8
5<>4V0;V7	5@H0 4>70 1000/200 <3, ?>BV< 500/100 <3 :>6=V 24 3>48=8 + 500/100 <3 ?VA;O 4V0;V7C

>@>A;V B0 4VB8 7 <0A>N BV;0 □ 40 :3

;V@5=A :@50B8=V=C 10-30 <;/E2	25/5 <3/:3 :>6=V 12 3>48=
;V@5=A :@50B8=V=C □ 10 <;/E2	25/5 <3/:3 :>6=V 24 3>48=8
5<>4V0;V7	25/5 <3/:3 :>6=V 24 3>48=8 + 12,5/2,5 <3 ?VA;O 4V0;V7C

>@CH5==O DC=:FVW ?5GV=:8

5>1EV4=V >15@56=VABL ?@8 4>7C20==V, ?>ABV9=89<>=VB>@8=3 DC=:FVW ?5GV=:8.

@5?0@0B 22>4OBL H;OE>< 2=CB@VH=L>25==8E V=T:FV9 (AB@C<8==>) 01> H;OE>< ?5@V>48G=8E V=DC7V9 (:@0?;8==>). ;020< =5 <>6=0 22>48B8 2=CB@VH=L><07>2>.

VBO< 2V:> 4> 3

V:C20==O <>6=0 ?>G8=0B8 V7 2=CB@VH=L>25==>3> 22545==O B0 ?@>4>26C20B8 ;V:0@AL:8<8 D>@ <0<8 4;O ?5@>@0;L=>3> 70AB>AC20==O.

V43>B>2:0 @>7G8=C 4;O 2=CB@H=L>25==8E V=T:FV9

500/100 <3: @>7G8=8B8 2=0 C 10 <; 2>48 4;O V=T:FV9 (:V=F5289 >1T< 10,5 <;);

1000/200 <3: @>7G8=8B8 2=0 C 20 <; 2>48 4;O V=T: FV9 (:V=F5289 >1T< 20,9 <;).

V4 G0A @>7G8=5==O <>65 7O28B8AL B825 @>6525 7010@2;5==O, I> 7=8:0T.

@5?0@0B ?>B@V1=> 22>48B8 ?@>BO3<< 20 E28;8= ?VA;O @>7G8=5==O.

V43>B>2:0 @>7G8=C 4;O 2=CB@VH=L>25==>W V=DC7VW

@83>B>2;5=89 O: =02545=> 28I5 @>7G8= 500/100 <3 >4@07C 4>40TBLAO 4> 50 <; V=DC7V9=>W @V48=8, 0 @>7G8= 1000/200 <3 4> 100 <; V=DC7V9=>W @V48=8 (:@0I5 70AB>AC20B8 =B59=5@ 01> 1N@5B:C). @>2>48B8 V=DC7VN A;V4 ?@>BO3<< 30-40 E28;8=. VA;O ?@83>BC20==O @>7G8= EV B0 DV78G=> AB01V;L=89 ?@>BO3<< 2-3 3>48= ?@8 B5 8 3>48= ?@8 B51V>;>3VG=8E ?>78FV9, ?@83>B>20=89 @>7G8= ?>B@V1=> 22>48B8 =5309=>.

@5?0@0B <>6=0 @>72>48B8 70 4>?><>3>N @V7=8E 2=CB@VH=L>25==8E @>7G8=V2. 04>2V;L=0 :>=F5=B@0FVO 0=B81V>B8:0 715@V30TBLAO ?@8 5 °! V ?@8 :V<=0B=V9 B5<5=4>20=8E >1T<0E 707=0G5=8E =86G5 V=DC7V9=8E @>7G8=V2. @8 @>7G8=5==V ?@5?0@0BC B0 9>3> 715@V30==V ?@8 :V<=0B=V9 B5B@V1=> ?@>2>48B8 ?@>BO3<< 707=0G5=>3> =86G5 G0AC.

>7G8= 4;O 2=CB@VH=L>25==>3> (2/2) 22545==O	5@V>4 AB01V;L=>ABV ?@8 25 □, 3>4
>40 4;O V=T: FV9	3
0,9 % @>7G8= =0B@VN E;>@84C	3
><1V=>20=89 @>7G8= =0B@VN E;>@84C (@>7G8= V=35@0)	2
><1V=>20=89 @>7G8= =0B@VN ;0:B0BC (@>7G8= %0@B<0=0)	2
0,3 % @>7G8= :0;VN E;>@84C V 0,9 % @>7G8= =0B@VN E;>@84C	2

@07V 715@V30==O ?@8 B5□ @>7G8=8 1000/200 <3 V 500/100 <3 <>6=0 4>4020B8 4> ?>?5@54=L> >E>;>465=>3> @>7G8=C 4;O V=DC7V9 (2>40 4;O V=T: FV9 01> 0,9 % @>7G8= =0B@VN E;>@84C), >B@8<0=89 ?@5?0@0B <>6=0 715@V30B8 ?@8 707=0G5=V9 B5 8 3>48=.

VA;O 4>AO3=5==O @>7G8=× :V<=0B=>W B53> A;V4 28:>@8AB0B8 =5309=>.

/:I> 3>BCTBLAO @>7G8= 1V;LH>W :>=F5=B@0FVW, ?5@V>4 AB01V;L=>ABV @>7G8=C ?@>?>@FV9=> 71V;LHCTBLAO.

;020< <5=H AB01V;L=89 C @>7G8=0E 3;N:>78, 45:AB@0=C B0 1V:0@1>=0BC, B>7G8=8 =0 707=0G5=V9 >A=>2V =5>1EV4=> 28:>@8AB0B8 ?@>BO3<< 3-4 E28;8= ?VA;O @>7G8=5==O.

528:>@8AB0=89 @>7G8= A;V4 CB8;V7C20B8 73V4=> 7 G8==8<8 28<>30<8.

>1VG=V @50:FVW.

=D5:FVW B0 V=207VW: :0=484>7 H:V@8 B0 A;87>28E >1>;>=>.: I>:C :@>2V B0 ;VW A8AB5<8: 5>78=>DV;VO, B@><1>F8B>7, >1>@>B=0 ;59:>?5=VO (2.;:NG0NG8 =59B@>?5=VN) B0 B@><1>F8B>?5=VO, 3V?>?:07VO :VAB:>2>3> <>7:C, >1>@>B=89 03@0=C;>F8B>7 V 35<>;VB8G=0 0=52>B5GV B0 ?@>B@><1V=>2>3> V=45:AC.

I>:C VW A8AB5<8: 0=3V>=52@>B8G=89 =01@O; 0=0DV;0:AVO/H>; A8=4@<, AE>689 =0
A8@>20B:>2C E2>@>1C (:@>?82O=:0 01> H:V@=V 28A8?0==O, I> AC?@>2>46C20;8AL 0@B@8B<,
0@B@0;3VTN, =E>A?07<<<), 0;5@3VG=89 20A:C;VB.

I>:C =5@2>2>W A8AB5<8: 70?0<>@>G5==O, 157A>==O, 3>;>2=89 1V;L, AC4<8, A?;CB0=VABL
A2V4><>ABV, 71C465==O, 3V?5@0:B82=VABL. !C4<8 <>6CBL 28=8:0B8 C ?0FVT=BV2 7 ?>@CH5=>N
DC=:FVTN =8@>: 01> C B8E, EB> >B@8:V 4>78 ?@5?0@0BC.

I>:C AC48==>W A8AB5<8: B@<1>D;51VB C

I>:C B@02=>3> B@0:BC: 4V0@5O, =C4>B0, 1;N20==O, ?>@CH5==O B@02;5==O, 014>;V, AB<0B8B,
>B5<=V==O O78:0, :0=484>7, 0=B81V>B8:>0A>FV9>20=89 :>;VB (2;:NG0NG8 ?A524<5<1@0=>7=89
>;VB V 35<>@03VG=89 :>;VB). <>2V@=VABL 28=8:=5==O 7=0G=> =86G5 ?@8 ?0@5=B5@0;L=>

I>:C 35?0B>1V;V0@=>W A8AB5<8: <8=CIV ?V428I5==O @V2=O A8@>20B:>28E B@0=A035=078 B0
>;C6=>W D>AD0B078; 48ADC=:FVO ?5GV=:8, E>;5AB0B8G=0 6>2O=8FO, E>;5AB0B8G=89 35?0B8B,
35?0B8B8. &V @50:FVW 28=8:0NBL ?@8 70AB>AC20==V V=H8E ?5=VF8;V=V2 V F5D0;>A?>@8=V2.
5?0B8B8 28=8:0NBL ?5@5206=> C G>;>2V:V2 V E2>@8E ;VB=L>3> 2V:C, V WE 28=8:=5==O<>65 1CB8
>?2'O70=> 7 B@820;8< ;V:C20==O< ?@5?0@0B>

I>:C H:V@8 B0 ?V4H:V@=>W :;VB:>28=8: H:V@=V 28A8?0==O, A25@1V6, :@>?82O=:0, ?>;V<>@D=0
5@8B5<0, A8=4@< !BV25=A0-6=>A>=0, B>:A8G=89 5?V45@<0;L=89 =5:@>;V7, ?CE8@G0AB89
5:AD>;V0B82=89 45@<0B8B, 3>AB@89 35=5@0;V7>20=89 5:70=B5<0B>7=89 ?CABC;L>7.

@07V ?>O28 1C4L-O:>3> 0;5@3VG=>3> 45@<0B8BC ;V:C20==O A;V4 ?@8?8=8B8.

I>:C A5G>284V;L=>W A8AB5<8: V=B5@AB8FV0;L=89 =5D@8B, 35<0BC@VO, :@8AB0;C@VO (482.
@>74V; «5@54>7C20==O»).

5@54>7C20==O.

5@54>7C20==O <>65 AC?@>2>46C20B8AL A8<0<8 7 1>:C H;C=:>2>-.8H:>2>3> B@0:BC B0 @>7;040<8
2>4=>3> B0 5;5:B@>;VB=>3> 10;0=AC. 07=0G5=V ?>@CH5==O ;V:CNBL A8<0B8G=>, 7 >A>1;82>N
C203>N 4> :>@5:FVW 2>4=>-5;5:B@>;VB=>3> 10;0=AC.

>65 A?>AB5@V30B8AL :@8AB0;C@VO 0<:A8F8;V=C, I> V=>4V <>65 ?@872>48B8 4> =8@:>2>W
=54>AB0B=>ABV (482. @>74V; «A>1;82>ABV 70AB>AC20==O»). ?>2V4<;5==O ?@> ?@5F8?VB0FVN
0<:A8F8;V=C C A5G>2>AC20==V 2=CB@VH=L>25==> ?@5?0@0BC C 28A>:8E 4>70E. !;V4
@53C;O@=> ?5@52V@0B8 ?@>EV4=VABL :0B5B5@0 (482. @>74V; «A>1;82>ABV 70AB>AC20==O»).
@5?0@0B <>6=0 2840;8B8 7 :@>2>B>:C <5B>4>< 35<>4V0;V7C.

0AB>AC20==O 2 ?5@V>4 203VB=>ABV 01> 3>4C20==O 3@C44N.

03VB=VABL

>A;V465==O =5 40NBL 7<>38 7@>18B8 28A=>2>: I>4> ?@O<>3> 01> >?>A5@54:>20=>3> =530B82=>3>
2?;82C =0 203VB=VABL, 5<1@V>=0;L=89/D5B0;L=89 @>728B>;, ?>;>38 01> ?>AB=0B0;L=89 @>728B>:.
1<565=V 40=V I>4> 70AB>AC20==O 0<:A8F8;V=C/:;02C;0=>2>W :8A;>B8 4;O ;V:C20==O 6V=>: ?V4
G0A 203VB=>ABV =5 2:07CNBL =0 ?V428I5=89 @878: 28=8:=5==O 2@>465=8E 204 C ?>;>40. >2V4>
<;O;>AO, I> C 203VB=8E 6V=>: 7 ?5@54G0A=8< @>7@82>< ?;V4=>3> ?CE8@O ?@>DV;0:B8G=5
70AB>AC20==O 0<:A8F8;V=C/:;02C;0=>2>W :8A;>B8 AC?@>2>46C20;>AO ?V428I5=8< @878:><
=5:@>B8G=>3> 5=B5@>:>;VBC =>2>=0@>465=8E. 0AB>AC20==O ?@5?0@0BC ?V4 G0A
203VB=>ABV A;V4 C=8:0B8, 70 28=OB:< B8E 28?04:V2, :>;8 ;V:0@ 22060T F5 =5>1EV4=8
>4C20==O 3@C44N

18420 :>=5=5B8 ?@5?0@0BC ?@>=8:0NBL C 3@C4=5 <>;> (2V4<>AB59 I>4> 4VW :;02C;0=>2>W
>:8A;>B8 =0 48B8=C =5<0T). @57C;LB0BV <>6;82V ?@>=>A8 V 3@81:>20 V=D5:FVO A;87>2>W
>1>;>=:8 C =5<>2;OB8 ?@8 3@C4=>4>2C20==V, B>2>48BLAO ?@8?8=OB8 3@C4=5 283>4>2C20==O.
@87=0G0B8 0<:A8F8;V=/:;02C;0=>2C :8A;>BC 2 ?5@V>4 3>4C20==O 3@C44N A;V4 ;8H5 ?VA;O
>FV=:8 ;V:0@5< A?V22V4V=>H5==O :>@8ABL/@878:.

VB8.

0AB>A>2CNBL 4VBO< 7 ?5@H8E 4=V2 68BBO.

A>1;82>ABV 70AB>AC20==O.

5@54 ?>G0B:>< B5@0?VW ;020<>< =5>1EV4=> 287=0G8B8 =0O2=VABL 2 0=0<=57V @50:FVW
3V?5@GCB;82>ABV 4> ?5=VF8;V=V2, F5D0;>A?>@8=V2 01> V=H8E 15B0-;0:B0<=8E ?@5?0@0BV2
(482. @>74V;8 «@>B8?>:070==O» B0 «>1VG=V @50:FVW»).

15@9>7=V, 0 G0A< =02VBL ;5B0;L=V 28?04:8 3V?5@GCB;82>ABV (0=0DV;0:B8G=V @50:FVW)
A?>AB5@V30NBLAO C ?0FVT=V2 ?V4 G0A B5@0?VW ?5=VF8;V=>
/I> 4>2545=>, I> V=D5:FVO 7C<>2;5=0 >@30=V7<0<8, GCB;828<8 4> 0<>:A8F8;V=C, =5>1EV4=>
@>73;O=CB8 <>6;82VABL ?5@5E>4C 7 :<1V=0FVW 0<>:A8F8;V=/:8A;>B0 ;:02C;0=>20 =0 0
<>:A8F8;V= 2V4?>2V4=> 4> >DVFV9=8E @5:><5=40FV9.

E2>@8E 7 ?>@CH5=>N DC=:FVTN =8@>: 01> ?@8 70AB>AC20==V 28A>:8E 4>7 <>6;825 28=8:=5==O
AC4>
@5?0@0B =5>1EV4=> 2V47@V =0 V=D5:FV9=89 <>=>=C;;5>7, >A:V;L:8 28=8:=5==O ?@8 FL>
@N20==V :>@5?>4V1=>3> 28A8?C <>65 1CB8 ?>2O70=5 7 ?@89><< 0<>:A8F8;V=C.
!CAC20==O 0;>?C@8=>;C ?V4 G0A ;V:C20==O 0<>:A8F8;V=>< <>65 71V;LHC20B8 0;5@3VG=V
@50:FVW 7 1>:C H:V@8.
>23>B@820;89 ?@89>< ?@5?0@0BC B0:>6 V=>4V <>65 A?@8G8=N20B8 =04>@30=V7
>728B>: @<=>W 5@8B5<8, 0A>FV9>20=>W 7 ?CABC;0<8 =0 ?>G0B:C ;V:C20==O, <>65 1CB8 A8<<<
3>AB@>3> 35=5@0;V7>20=>3> 5:70=B5<0B>7=>3> ?CABC;L>7C (482. @>74V; «>1VG=V @50:FVW»).

B0:>1EV4=> ?@8?8=8B8 ;V:C20==O, V 2 ?>40;LH>B8?>:070=> 22545==O 0<>:A8F8;V=C.
@5?0@0B A;V4 7 >15@56=VABN 70AB>A>2C20B8 E2>@8< 7 ?>@CH5==O< DC=:FVW ?5GV=:8.
5?0B8B8 28=8:0NBL 3>;>2=8< G8=>< C G>;>2V:V2 V E2>@8E ;VB=L>3> 2V:C, V WE 28=8:=5==O<>65
1CB8 ?>2 O70=> 7 B@820;8< ;V:C20==O< ?@5?0@0B> B0:V ?>1VG=V @50:FVW <>6CBL 28=8:0B8 C
4VB59. !8<8 70E2>@N20==O 28=8:0NBL ?V4 G0A 01> >4@07C ?VA;O ;V:C20==O, 0;5 2 45O:8E 28?04:0E
<>6CBL 28=8:=CB8 G5@57 45:V;L:0 B86=V2 ?VA;O 70:V=G5==O ;V:C20==O. &V O2810 728G09=>
<0NBL >1>@>B=89 E0@0:B5@. 04728G09=> @V4:> A?>AB5@V30;8AO ;5B0;L=V 28?04:8, O:V 702648
B@0?;ONBLAO C ?0FVT=V2 7 BO6:8< >A=>2=8< 70E2>@N20==O< 01> C ?0FVT=V2, O:V >4=>G0A=>
;V:CNBLAO ?@5?0@0B0<8, I> <0NBL =530B82=89 2?;82 =0 ?5GV=:C (482. @>74V; «>1VG=V
@50:FVW»).

@8 70AB>AC20==V <0965 2AVE 0=B810:B5@V0;L=8E ?@5?0@0BV2 ?>2V4<;O;>AO ?@> 28=8:=5==O
0=B81V>B8:>0A>FV9>20=>3> :>;VBC, I> <>65 20@VN20B8 2V4 ;53:>3> ABC?5=O 4> B0:>3>, I>
703@>6CT 68BBN (482. @>74V; «>1VG=V @50:FVW»). "> <0B8 F5 =0 C207V C @07V 28=8:=5==O C
?0FVT=V2 4V0@5W ?V4 G0A 01> ?VA;O 70AB>AC20==O 0=B81V>B8:0. # @07V 28=8:=5==O
0=B81V>B8:>0A>FV9>20=>3> :>;VBC ;V:C20==O ;020<>< A;V4 =5309=> ?@8?8=8B8, 725@=CB8AL 70
<548G=>N 4>?><>3>N B0 ?>G0B8 2V4?>2V4=5 ;V:C20==O.
V4 G0A B@820;>W B5@0?VW @5:><5=4CTBLAO :>=B@>;N20B8 DC=:FVW >@30=V2 V A8AB5<
>@30=V72>B2>@5==O.
@V4:0 C ?0FVT=V2, I> ?@89<0NBL ;020< B0 ?5@>@0;L=V 0=B8:>03C;O=B8, <>65
A?>AB5@V30B8AO ?>=04=>@<>25 ?>4>265==O ?@>B@><1V=>2>3> G0AC (?V42815==O @V2=O
4=>3> =>@<0;V7>20=>3> A?V22V4=>H5==O (INR)). @8 >4=>G0A=>03C;O=V2 =5>1EV4=89
2V4?>2V4=89 <=>VB>@8=3. >65 1CB8 ?>B@V1=>N :>@5:FVO 4>78 ?5@>@0;L=8E 0=B8:>03C;O=V2
4;O ?V4B@81EV4=>3> @V2=O 0=B8:>03C;OFVW (482. @>74V;8 «>1VG=V @50:FVW» B0 «70T<>4VO 7
V=H8<8 ;V:0@AL:8<8 70A>10<8 B0 V=HV 2848 270T<>4VW»).

%2>@8< 7 =8@:>2>N =54>AB0B=VABN 4>7C A;V4 :>@53C20B8 73V4=> 7V ABC?5=5< ?>@CH5==O
DC=:FVW =8@>:.

E2>@8E V7 7<5=H5==O< :V;L:>ABV 284V;5=>W A5GV 4C65 @V4:><>65 28=8:=CB8 :@8AB0;C@VO,
3>;>2=8< G8=>< ?@8 ?0@5=B5@0;L=>AC20==V 28A>:8E 4>7 0<>:A8F8;V=C @5:><5=4CTBLAO
045:20B=89 ?@89>< @V48=8 B0 :>=B@>;L 2V4?>2V4=>3> 282545==O A5GV 7 <5B>N 7<5=H5==O
<>6;82>ABV 28=8:=5==O :@8AB0;C@VW 0<>:A8F8;V=C (482. @>74V; «5@54>7C20==O»).

@8 ;V:C20==V 0<>:A8F8;V=>< 4;O 287=0G5==O @V2=O 3;N:>78 2 A5GV A;V4 28:>@8AB>2C20B8 D5@
<5=B0B82=V @50:FVW 7 3;N:>7>:A8407>N, >A:V;L:8 V=HV<5B>48 <>6CBL 4020B8 E81=>?>78B82=V
@57C;LB0B8.
?>2V4<<;5==O ?@> E81=>?>78B82=V @57C;LB0B8 B5ABV2 =0 =0O2=VABL*Aspergillus* C ?0FVT=V2,
O:V >B@8Bio-Rad Laboratories Platelis *Aspergillus* EIA). ">78B82=V @57C;LB0B8 C ?0FVT=V2, O:V
;V:CNBLAO 0<>:A8F8;V=>2>N :8A;>B>N, A;V4 V=B5@?@5BC20B8 7 >15@56=VABN B0
?V4B25@46C20B8 V=H8<8 4V03=>AB8G=8<8 <5B>40<8.
@8ACB=VABL ;:02C;0=>2>W :8A;>B8 2 ;02Ilg V 0;L1C

@07V =5>1EV4=>ABV ?0@5=B5@0;L=>3> 22545==O 28A>:8E 4>7 ?@5?0@0BC ?0FVT=B0<, O:V 7=0E>4OBLAO =0 =0B@V9:>=B@>;L>20=V9 4VTBV, A;V4 725@B0B8 C203C =0 27G8=0E.

40B=VABL 2?;820B8 =0 H284:VABL @50:FVW ?@8 :5@C20==V 02B>B@0=A?>@B< 01> @>1>BV 7 V=H8<8 <5E0=V7<0<8.

>A;V465=L 7 282G5==O 740B=>ABV 2?;820B8 =0 H284:VABL @50:FVW ?@8 :5@C20==V 02B>B@0=A?>@B< 01> @>1>BV 7 V=H8<8 <5E0=V7<0<8 =5 ?@>2>48;>AL. 4=0: 28=8:=5==O B0:8E ?>1VG=8E @50:FV9, O: 0;5@3VG=V @50:FVW, 70?0<>@>G5==O, AC4<8, <>65 2?;820B8 =0 740B=VABL :5@C20B8 02B>B@0=A?>@B< 01> ?@0FN20B8 7 V=H8<8 <5E0=V7<0<8.

70T<>4VO 7 V=H8<8 ;V:0@AL:8<8 70A>10<8 B0 V=HV 2848 270T<>4V9.

4=>G0A=> 70AB>A>2C20B8 ?@>15=5F84 =5 @5:>5=4CTBLAO. @>15=5F84 7<5=HCT =8@:>2C :0=0;LF52C A5:@5FVN 0<>:A8F8;V=C. 4=>G0A=5 70AB>AC20==O ;020

4=>G0A=5 70AB>AC20==O 0;>?C@8=>;C ?V4 G0A ;V:C20==O 0<>:A8F8;V=< 71V;LHCT 9 <>2V@=VABL 0;5@3VG=8E H:V@=8E @50:FV9. 0=8E I>4> >4=>G0A=>3> 70AB>AC20==O ?@5?0@0BC B0 0;>?C@8=>;C =5<0T.

/: V V=HV 0=B81V>B8:8, ;020< <>65 <0B8 2?;82 =0 D;>@C :8H5G=8:C, I> ?@872545 4> 7<5=H5==O @501A>@1FVW 5AB@>35=V2 B0 7<5=H5==O 5D5:B82=>ABV :<1V=>20=8E ?5@>@0;L=8E :>=B@0F5?B82=8E 70A>1V2.

A=CNBL >:@e2V4><;5==O ?@> 71V;LH5==O @V2=O 4=>3> =>@<0;V7>20=>3> A?V22V4=>H5==O

(INR) C ?0FVT=BV2, O:V ;V:CNBLAO 0F5=>:C<0@>;< 01> 20@D0@8=>< B0 ?@89<0NBL 0 <>:A8F8;V=. /:I> B0:5 70AB>AC20==O =5>1EV4=5, A;V4 @5B5;L=> :>=B@>;N20B8 ?@>B@<1V=>289 G0A 01> @V25=L 4=>3> =>@<0;V7>20=>3> A?V22V4=>H5==O, V C @07V =5>1EV4=>ABV ?@8?8=8B8 ;V:C20==O ?@5?0@0B>

5=VF8;V=8 <>6CBL 7<5=HC20B8 282545==O <5B>B@5:A0BC, I> <>65 A?@8G8=8B8 7@>AB0==O B>:A8G=>ABV >AB0==L>3>.

\$0@<0;>;>3VG=V 2;0AB82>ABV.

\$0@<0:>48=0 <>:A8F8;V= =0?V2A8=B5B8G=89 0=B81V>B8: 7 H8@>:8< A?5:B@< 0=B810:B5@V0;L=>W 0:B82=>ABV ?@>B8 1030BL>E 3@078B82=8E V 3@0<=530B82=8E >@30=V7 ABV 0<>:A8F8;V=C =5 2;;NG0T >@30=V7<8, I> A8=B57CNBL F59 D5@<5=B. ;02C;0=>20 :8A;>B0 <0T 15B0-;0:B0<=C AB@C:BC@C, ?>4V1=C 4> AB@C:BC@8 ?5=VF8;V=V2, 0 B0:>6 740B=0 V=0:B82C20B8 15B0-;0:B0<07=V D5@<5=B8, I> 2;0AB82V >@30=V7<0<, @578AB5=B=8< 4> ?5=VF8;V=V2 V F5D0;>A?>@8=V2. >:@5<0, ;02C;0=>20 :8A;>B0 0:B82=0 I>4> 206;828E 7 ;V=VG=>W B>G:8 7>@C ?;07 >@30=V7< @578AB5=B=8E 4> 0<>:A8F8;V=C, B0 V=H8E ?5=VF8;V=V2 V F5D0;>A?>@8=V2.

"0:8< G8=><, ?@5?0@0B <0T 2;0AB82>ABV 0=B81V>B8:0 H8@>:>3> A?5:B@0 4VW V V=3V1VB>@C 15B0-;0:B0<07.

V:@>>@30=V7<8, =02545=V =86G5, @>7?>4V;5=V 2V4?>2V4=> 4> GCB;82>ABV 4> 0<>:A8F8;V=C/;02 C;0=0BC in vitro.

'CB:82V >@30=V7<8

@078B82=V 05@>18: *Bacillus anthracis*, *Enterococcus faecalis*, *Gardnerellavaginalis*, *Listeria monocytogenes*, *Nocardia asteroides*, *Streptococcus pneumoniae*, *Streptococcus pyogenes*, *Streptococcus agalactiae*, *Streptococcus viridans* V=HV β -35<>;VB8G=V 2848 *Streptococcus Staphylococcus aureus* (<5B8F8;V=GCB;82V HB0<8), *Staphylococcus saprophyticus* (<5B8F8;V=GCB;82V HB0<8), :>03C;07>=530B82=V AB0DV;>:8 (<5B8F8;V=GCB;82V HB0<8).

@0<=530B82=V 05@>18: *Bordetellapertussis*, *Haemophilus influenza*, *Haemophilus parainfluenzae*, *Helicobacter pylori*, *Moraxella catarrhalis*, *Neisseria gonorrhoeae*, *Pasteurellamultocida*, *Vibrio cholera*.

=HV: *Borrelia burgdorferi*, *Leptospirous icterohaemorrhagiae*, *Treponema pallidum*

@078B82=V 0=05@>18: 2848 *Clostridium*, *Peptococcus niger*, *Peptostreptococcus magnus*, *Peptostreptococcus micros*, 2848 *Peptostreptococcus*

@0<=530B82=V 0=05@>18: 2848 *Bacteroides* (2;;NG0NG8 *Bacteroides fragilis*), 2848 *Capnocytophaga*, *Eikenella corrodens*, 2848 *Fusobacterium*, 2848 *Porphyromonas*, 2848 *Prevotella*

(B0<8 7 <>6;82>N =01CB>N @578AB5=B=VABN

@0<=530B82=V 05@>18: *Escherichia coli*, *Klebsiella oxytoca*, *Klesiella pneumonia*, 2848 *Klebsiella*, *Proteus mirabilis*, *Proteus vulgaris*, 2848 *Proteus*, 2848 *Salmonella*, 2848 *Shigella*.

@078B82=V 05@>18: 2848 *Corynebacterium, Enterococcus faecium.*

5GCB:82V >@30=V7<8

@0<=530B82=V 05@>18: 2848 *Acinetobacter, Citrobacter freundii, 2848 Enterobacter, Hafnia alvei, Legionella pneumophila, Morganella morganii, 2848 Providencia, 2848 Pseudomonas, 2848 Serratia, Stenotrophomas maltophilia, Yesinia enterolitica*

=HV: *Chlamydia pneumonia, Chlamydia psittaci, 2848 Chlamydia, Coxiella burnetti, 2848 Mycoplasma.*

\$0@<0:>:V=5B8:0. A=>2=V D0@<0:>:V=5B8G=V 2;0AB82>ABV 0<:>:A8F8;V=C B0 ;;02C;0=>2>W :8A;>B8 ?>4V1=V.<:>:A8F8;V= V ;;02C;0=>20 :8A;>B0 C :<1V=0FVW =5 2?;820NBL =0 D0@ <0:>:V=5B8:C >48= >4=>3>. V: A8@>20B:>28E :>=F5=B@0FV9 ?VA;O 1>;NA=>W V=T:FVW ?@5?0@0BC 1,2 3 AB0=>28BL 105,4 <3/>; 4;O 0<:>:A8F8;V=C V 28,5 <3/>; 4;O ;;02C;0=>2>W :8A;>B8. 18420 :>=5=B8 E0@0:B5@87CNBLAO 30@=8<>1T<< @>7?>4V;5==O C @V48=0E V B:0=8=0E >@30=V73> 2CE0, A5:@5B 25@E=L>I5;5?=8E A8=CAV2, A5:@5B =>A>28E ?07CE, ?;52@0;L=0 B0 ?5@8B>=50;L=0 @V48=8, ?5@5420 70;>70, <8340;8:8, <:>:@>B8==O, 1@>=EV0;L=89 A5:@5B, ?5GV=:0, 6>2G=89 AB5@V30TBLAO G5@57 3>48=C ?VA;O 4>AO3=5==O ?V:C A8@>20B:>28E :>=F5=B@0FV9. <:>:A8F8;V= V ;;02C;0=>20 :8A;>B0 ?@>=8:0NBL :@V7L ?;0F5=B0@=89 10@T@ B0 C =87L:8E :>=F5=B@0FV9 C 3@C4=5 <:>:>. <:>:A8F8;V= V ;;02C;0=>20 :8A;>B0 7207CNBLAO 7 1V;:0<8 ?;07<8 :@>2V =0 17-20 % B0 22-30 % 2V4?>2V4=>.

<:>:A8F8;V= 282>48BLAO V7 A5G5N 2 >A=>2=>20 :8A;>B0 ?V440TBLAO 0:B82=8< <5B01>;VG=8< ?5@5B2>@5==O C ?5GV=FV B0 282>48BLAO, 2 >A=>2=> # ?0FVT=BV2 7 ?>@CH5=>N DC=:FVTN =8@>: 282545==O ?@5?0@0BC C?>2V;L=5=5, C 7207:C 7 G8< =5>1EV4=0 :>@5:FVO @5687C20==O 7=865==O 4>7C20==O 01> 71V;LH5==O V=B5@20;C 7C20==O< 2V4?>2V4=> 4> ABC?5=O ?>@CH5=L.

\$0@<0F52B8G=V E0@0:B5@8AB8:8.

A=>2=V DV78:>-EVABV: <0965 1V;89 01> 6>2BC20B>3> :>;L>@C ;53:>A8?CG89 ?>@>H>:.

5AC

@5?0@0B =5 A;V4 74C:B0<8 :@>2V, V=H8<8 @V48=0<8, I> :, 7>:@5<0 7 3V4@>;V70B0<8 1V;:V2, B0 7 5 /:I> ;020< 70AB>A>2CNBL >4=>G0A=> 7 03;V:>784<, 0=B81V>B8:8 =5 A;V4 74=>3;V:>784C 2B@0G0TBLAO.

"5@ABV.2 @>:8.

#<>28 715@V30==O.

15@V30B8 C 70E8I5=>□.

15@V30B8 C =54>ABC?=>

#?0:>2:0.

>@>H>: ?> 500 <3/100 <3 01> ?> 1000 <3/200 <3 C D;0:>=V. > 1 D;0:>=C C :0@B>==V9 C?0:>2FV.

0B53>@VO 2V4?CA:C. □0 @5F5?B>

8@>1=8:.

::5< 01>@0B>@V7 B4.

VAF57=0E>465==O.

167/1, ..#. 030@, 01E5;, 0<0= 396 210, =4VO.